



Project: Alaska Copper Works

Inspection Date: 1/20/20

Project No.: 19ACW1

Technician: David DuBois

System Performance:

Was system running during the inspection? ☐ Yes ☒ No

Flow Rates (gpm) Influent 90 Effluent 160 The flows should be ~155 gpm

Bag Filter #1 Pressures (psi) Influent 10 Effluent 10 The bag filters should be replaced if differential pressure > 8 psi

Bag Filter #2 Pressures (psi) Influent 10 Effluent 10

Carbon Filter Pressures (Lead) Influent 10 Effluent 6 The carbon filters should be backflushed if differential pressure > 8 psi

Carbon Filter Pressures (Lag) Influent 4 Effluent 0

Were the bag filters replaced? ☒ Yes ☐ No

Was the carbon backflushed? ☒ Yes ☐ No

Maintenance and Inspection Checklist:

Task	Completed (Y/N)	Issues/Notes/Comments
Walchem Controller Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No issues
Flow Meters Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cleaned meters
Level Sensor Cleaning/Inspection	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No issues
Inspect System Plumbing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No leaks observed
Pumps Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Good
General Housekeeping	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Organized
Chemistry Level	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<2 gallons 10% Caustic 45 gallons 25% Caustic
Safety Materials Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Ok
pH Probe Inspection/Calibration	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Calibrated



Water Sampling:

Were water samples taken? ☐ Yes ☒ No

Raw water:	pH	<u>6.05</u>	Turbidity	<u>7.10</u>	NTU
Bag Filter Influent	pH	<u>9.06</u>	Turbidity	<u>14.4</u>	NTU
Bag Filter Effluent	pH	<u>8.87</u>	Turbidity	<u>6.88</u>	NTU
Carbon Filter Influent	pH	<u>8.03</u>	Turbidity	<u>5.19</u>	NTU
Carbon Filter Effluent	pH	<u>7.86</u>	Turbidity	<u>2.18</u>	NTU

Monthly Tasks:

Were samples submitted to Analytical? ☐ Yes ☒ No

Analytical Lab: _____

Was Walchem data downloaded? ☐ Yes ☒ No

Were the tank sludge levels checked? ☐ Yes ☒ No

Sludge Depth (inches):

Decant Tank: _____

Treatment tank: _____

Backflush tank: _____

Main lift station: _____

North lift station: _____

South lift station: _____

Additional Comments, Recommendations and System Upsets:

2 unused filters remaining onsite.

Filters replaced on 1/18/20

Lead carbon vessel backflushed on 1/20/20 for 15 min. Initial lead carbon vessel pressures were 16 psi over 6 psi.

David DuBois

Technician

Project Lead Technician

Title

1/20/20

Date

Submit